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FILE CONTENT: 1840 - 9 Mar 2008 VOL 148 ISS 11

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STEREO ATTRIBUTES: NONE 18 13 SEA FILE-CASREACT SSS FUL L6 (30 REACTIONS)

-> d bib abs crd 113 tot

- - US-004209410 A1 20041012 200440-01946419 219401 US-1004200019 A 2004203 200440-0194619 219401 MK-5004800015 A 2004203 200480-04000015 219401 US-004400141 B 2004203 200480-04000015 219401 201400-480001300 2004203 200400-01900015 219401 201400-480001300 2004203



Ab (3)-Mirrampine was prepared using a ring closure reaction of (3)-pyriciplysessine if X - bearing rough using as end as organic (3)-pyriciply-cashie-based polymerates (10 (4) (5)) and disologically (3)-pyricipl-cashie-based-pyriciply-paratise (10 (6)), was disologically like the purpose of the pyriciply-paratise (10 (6)), was disologically be obtained in 4th years with 17-22 ex.

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NOTE optimization study, storecombettive, polyphosphoric acid was used COM: 15 bours, room temperature -> 130 deg C

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CON 18 hours, 100m temperature -> 110 day C

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NEC41 OF 10

[STADE(3) 1 hour, room temperature; 3 hours, 50 - 60 deg STADE(3) 0 hour C. of 30

97/71 OF 10 - 1 FTERS

114 ANSWER 2 OF T CASREACT COPPRIGHT 2000 ACS on SIN AN 139/304301 CARREACT

TI Novel synthesis and crystallization of piperatine ying-containing compounds such as mirratespies 13 Singer, Claude, liberman, Amita, Fintelstein, Nina PA, Israel
50 U.S. Pat Appl Publ. 9 pp., Cont.-in-part of U.S. Ser. No. 552,44

OT Patent LA English

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	DATEST NO.	XIND	DATE	APPLICATION NO.	DATE
PI	US2003169427		20030410	209285-019206344	20020725
	CS1679586		20051012	103509-015004288	
			20032012	2003094-01004250	
		8.1		200205-010283093	
	US2024176591	A1	20048909	200415-010500318	

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http://www.cas.org/support/stngen/stndoc/properties.html

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STEREO ATTRIBUTES: NONE L17 34 SEA FILE-REGISTRY SSS FUL L15

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GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 19

STEREO ATTRIBUTES: NONE L20 131 SEA FILE-REGISTRY SSS FUL L18

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6133-13-4 31656-55-1
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[projection of 1-(1-bylosopathyl-1-byrinyl)-4-mathyl-1-phenylyiperation)
3-byridisecthoglic acid, 2-(4-mathyl-1-phenyl-1-piyeoxinyl)[NAS]

3:3606-55-1 HCAPLUS 3-Pyridiamocarboughic acid, 2-(4-methyl-2-phenyl-1-piperatinyl)-, potassium salt (951) (CA EXMEX NAME)

Common to the property of the

NS 01337-85-1 SCACLES CS 3-Pyridisemethanol, 2-(4-methyl-2-phonyl-1-piperszinyl)- (CA IMERI MANN)

129 ANDRON 1 OF 12 HEAPIER COPYRIGHT 2009 ACR on REH (CONTINUED)

128 ANSMER 2 OF 13 HEAVIES COPYRIGHT 2008 ACS on STM (Continued)

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	PATENT NO.	STED	DATE	APPLICATION NO.	DATE	
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			20031012	2053476-920004288		
	US1091051718				20010706 4	
					20021830 4	
		3.2	20039810			
				201406-100801918	20049316 4	

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 8 4337-33-1 (MANIES
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(19-1)-4 HCAFLEG Pyridinecarboxylic acid, 2-(4-methyl-2-phenyl-1-piperathnyl)- (CA IMDEX

9560-51-09, Miriangias AL IDE (Indexical association); GPN (Synthetic proposition); DEI (Thereposits use); EIOA (Biological study); PRESS (Propasation); DEEZ (Test); (preparation and cryscallisation of piperatize risq-occasing compis. First as

- LI NOMBER 1 OF 17 TANDANS ONTOTO THE NO M CR AND THE CONTROL OF T

61327-48-18, 1-(1-bydrocynethyl-2-pyridyl)-4-enthyl-2-pyridyl-1-2-10, 1-12-4ctory-2-pyridyl-4-enthyl-2-pheryl-pyrestrical maxification, [FC] (Resetter), 280 (Spythetic St. 190 (Instantial maxification), [FC] (Resetter), 280 (Spythetic (Spythetic and Spythetic and Sp

138 ANSHOW (OF 12 HEMPLES COPYRIGHT 2009 ACE OF STM (CONTINUED) 89 6237-83-1 HOUSES (2-6-methyl-2-phenyl-1-paperwaxay) - (CA INDEX NAME)

NS 61338-13-4 KENDIS CS 3-Pypidimenarkonylic anad, 2-(k-methyl-2-phecyl-1-piperaricyl) - CE DHEK NAMES

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4.127-34-6. https://doi.org/10/ji-4-act/pj-1-phes/ji/prezine 3. PGT [Details] ABCT [Details of repair [details] and selection of 1-(1-outher)-2-py-1-gil-1-(-outher)-2-py-1-gil-1-(-outher)-2-py-1-gil-1-(-outher)-2-py-1-gil-1-(-outher)-2-py-1-gil-1-(-outher)-2-py-1-gil-1-(-outher)-2-py-1-gil-1-py-1-gil-1

- 128 AMERICA 4 OF 12 REMAINS CONTRICKE 2009 ACS ON SER. (CONCLEMENT)
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[process for the manufacture of anhydrous solvent-free mirrarapine crystals)
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128 ANSWER 5 OF 13 MEASURES COPURISHED 1888 ACS on SIM (Continued)

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128 ANSARA 8 OF 13 MEATURE CONTRIGHT 2000 ACS on STM (Continued)
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30 34165-56-1 MEATURE
31 32-SpyridimentRoughid acid, 3-(4-methyl-3-phenyl-3-phenyl-ypterminyl)-, potamicm acid (52) (CA TROUGH NAME)

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128 ASSWER 9 OF 13 NCAPAUS COPYRIGHT 2000 ACS on SIN (Continued) methylo, hodgado (SCI) (CA TRIES NAME)

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6137-49-1 TML NTC (Reactant); TMCT (Reactant or reagent) (anhydrous mirtanapine crystals and process for production thereof) 6137-78-1 EXTERNAL 6137-78-1 EXTERNAL 6137-78-1 EXTERNAL (CA INSEE NAME)

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ms 341512-80-1 MCAPLES CS Peraxino[2,1-a]pyrido[2,3-c][2]benzarepine, 1,2,3,4,10,14b-hexabydro-2-

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DA Teva Pharmaceutical Ind INCT 59 PCT Int Appl , 22 pp. CORREST PIXED UT PATEON DA Reglish PANLORT 2 PATEONT NO. RIN

March 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 1987 | 198

128 ASSMER 11 OF 13 ECASLAG COSTROCKT 2008 ACG on GTS (Continued)
RE 351001-95-7 ROMEAN
RE 751001-95-7-10-(chirocomthy)-2-pyridinyi)-4-methyt-2-phenyi- (CA IMBEN

|-94-9 NCAPLUS |sine, 1-|3-(iodomethyl)-2-pyvidinyl|-4-methyl-2-phenyl- (CA INDEX

RE CHI 2 THEFE AFE 2 CITED PEPERFERCES AVAILABLE FOR THIS PROCED ALL CITATIONS AVAILABLE IN THE RE FORMAT

10 / 564193

03 -0-16C, 2-(4-methyl-2-phonyl-1-paperasanyl) - (9CE)

128 ANDRON 12 OF 13 HOWELD COMPARISHED 2509 ACR OR DETW. (CONT. ROAD

13560-723-EP

13560-723-EP

(Preparation) NACT Observation preparation) PMEP

(Preparation) NACT Observation of preparation (CA INSECT NOWN)

PROPARATION (PREPARATION OF PREPARATION OF P

128 AMSHER 12 OF 13 MEASURE CONTRIBUTION ACE on SIN (Continued)

199133-19-19 105710-33-69 13590-127-19
No. 500 (systemic preparation) pMEM (Preparation) (preparation of 199135-14-1 KOMING (A) (199135-14-1 KOMING (A

125 PO-82-6 MCAPLES Pyrade(2,3-0)[2]beneseppine:10a,21,12,13,14,16a-1306, 1,12,14,10,14-bashydio-2-mathyl- (MCI) (CM INDEX MAME)

128 ANSHER 12 OF 13 HEAVING CONTRIGHT 1800 AGG on STR (Contin

28-6 HCARLUS 0[2,3-a]pyri00[2,3-o][2]Bensasepine-12-7, 1,2,3,6,10,168-bensasy 1- (SCI) (CA INDEX NAME)

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38	86 27982 86 47878-47884							
TT	Heterocyclic tetre							
176	Van der Burg, Will							
ZA.	ACID N. V., Beth.							
	per offen, co up							
i.	Section							
	DR2614416	8.2	19761814	197608-202614406				
	N1109159	3	19929501					
	N1109199	0	19939201					
	TAT601/56	A	19771330	191628-100033756	19761323			
	NJ7612361	A			19761325			
	G92543173	A	19791328	1978GB-100012270	19791326			
	CS633361	AS	19911133	197609-100033886	19761319			
	DR 7601626		19 /61806	197600-100001416	19762330			
	DX142498	3.	19002210					
	DR141498	c	19810706					
	8160287		19920720	197691-000001994	19769401			
	FI62117	c	19023310					
	88	A1	19761508	19 (688)-100165832	19762403			
	581603931		19761006	197668-100023931	19769402			
	62422941	3	19929405					
	53422941	0	19820715					
	3951122019		19761025	1976/9-100037679	19769402			
	JP55042678	3-	19941016					
	F32305916	A2	19761029	197675-100039686	39761402			
	PR	8.1	19892613					
		A1	19991429	1978CA-100249439	19761402			
	8211859	A2	39020227	1976H3-AD0091437	39762405			
	92179411		19821528					
77.	197501-100075040		19759405					

- As the citie composi, e.g. | 1 alon in, with instruous system-engressment and antichitematic activities (no data), are prepared by various procedures. Thus, resolves of 1-objects (notice) - 1-year along various procedures, gives (-1-datty):-2-year)-2-year along 1-2-year along solution which is provided to the composition of the composition of the composition of the provided to the composition of the composition of the composition of the provided the composition of the composition of
- II 61337-89-19
 Ni- NGT (Reactant); SEE (Systhetic preparation), DNE
 (Freparation), RACT (Reactant or respect)
- NS 61337-89-1 MINFLED (4-nethyl-1-phenyl-1-piperaninyl)- (CA INDEE NAME)

128 ASSWER 13 OF 13 MEASURE COMPAREST 2000 ACS on SIN (Continued)

12 61337-69-79 61337-70-19 61337-71-19 61337-72-09 61337-73-49

SL 50% (Symthetic preparation), PMEP (Preparation)

- NS 6117-64-7 MINPLES CS Pyratino[3, 3-8)pyrifo(2,3-c)[3]bennatepine, 1,2,3,4,10,14b-benshydro (22)-2-bstemedioate (902) (OA INDEX NAME)

CRS 131-16-7

uble bond geometry as shown

100 20 2

-- , -----

IT 61337-88-09 RL. RCT (Reactage); SPM (Symthetic preparation); RM

(preparation and hydrolysis of)

II 63338-32-39 RL: RCI (Reactant); SPR (Synthetic preparation); PRE

(proparation and pyrolysis of) 83 61228-12-3 MEMPLES

II 61338-13-49 BL: NCT (Resetent); SFN (Symthotic proparation); SRE

(preparation and reduction of)

128 ANSMER 13 OF 13 ECASLES COSTRIGHT 2800 ACG on STR (Continued)

UU.

No. 63337-12-2 ECAPLES CB Pyraciso[2,1-e]pyrido[2,3-c][2]benzarepine, 1,2,3,4,10,16b-bexebydro-12 netbory-3-metby] (CA 1808X NAME)

80 6233-73-3 EMSULES
SPERINGIZ, 2-alygridu(2,3-a)[Z]bennarepine, 1,2,3,4,10,14b-benshydro-2,31-dusthyle (CM.ISEEN 9888)

| 61127-74-6 EENFLEE
CS Systato(2,3-4)systao(2,3-c)(2)sentrappine, 1,2,3,4,10,145-basabydro-2,13-da-shiptine

AND ADDRESS AS OF 13 HONDALD CONTRINST 2009 ACR ON BOTH CONCLESSED.



• 103

NS 6137-75-5 EGM2185 CS Pyranius[1].1-ajpyrids[2].3-o][2]bennarepin-12-ol, 1.2, 2.4, 10.14b-benabydro 2-aphrel (2 1505 Nass)



NS 61337-84-0 KENDIE CB Pyraxino[2,1-a)pyrido[2,3-o][2]benzazepine, 8-bromo-1,2,3,4,10,14



NN 6137-01-9 MINAPLES

SPYCHISTELL-01977500 [2,3-c][Sibensespine, 1,2,3,4,10,140-benabydro-methyl-, [1640] (CA INDEX NAME)



NN 61364-36-1 MCAPLES

126 ARREON 12 OF 12 HEAPLES COPYRIGHT 2509 ACT OR NTM (CONTINUES) CS: Pyracino[2,1-e]pyrio0[2,3-c][2]benzaspine, 12-chloro-1,2,3,4,10,140heaplestra_2_activity. disherblaries (STI) (OR DREE NAME)



•2 HCL

NN 63364-37-3 NCAPLAG
CM Pyrania(3,3-4)pyr.69(2,3-4)[3]bensarpine, 1,2,3,4,10,348-benshydro-3mattyl-, 14884- (CA INDEX NORE)
Absolute stereobiemstry- Metalion (-)



NN 85450-52-8 NCAPLES CN Pyratin(2,1-a)pyrid(2,2-c)(2)bennuspine, 1,2,3,4,10,14b-hezskydrc-2-



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(FILE 'HCAPLUS' ENTERED AT 18:14:44 ON 11 MAR 2008)
                DEL HIS Y
     FILE 'HCAPLUS' ENTERED AT 19:20:44 ON 11 MAR 2008
              1 US20060229300/PN
     FILE 'REGISTRY' ENTERED AT 19:20:51 ON 11 MAR 2008
    FILE 'HCAPLUS' ENTERED AT 19:20:51 ON 11 MAR 2008
                TRA 11 1- RN :
                                      3 TERMS
     FILE 'REGISTRY' ENTERED AT 19:20:51 ON 11 MAR 2008
              3 SEA L2
    FILE 'CASREACT' ENTERED AT 19:21:17 ON 11 MAR 2008
                STR L4
              0 L6
              8 L8 AND (PD<=20030710 OR AD<=20030710 OR PRD<=20030710)
              4 L8 AND PD<-20020710
              8 L9-10
              5 L8 NOT L11
              SEL AN 2 L11
1 E291 AND L11
    FILE 'REGISTRY' ENTERED AT 19:31:41 ON 11 MAR 2008
                STR L6
L16
             34 L15 FULL
                SAV TEM J193C1REG/A L17
     FILE 'CASREACT' ENTERED AT 19:33:06 ON 11 MAR 2008
               SAV TEM J193C1CASRE/A L8
    FILE 'REGISTRY' ENTERED AT 19:33:13 ON 11 MAR 2008
                STR 16
            131 L18 FULL
                SAV TEM J193C1REG2/A L20
    FILE 'HCAPLUS' ENTERED AT 19:34:04 ON 11 MAR 2008
L21
             33 L17
            836 L20
             23 L21 (L) RACT+NT/RL
56 L22 (L) (PREP+NT OR FORM+NT)/RL
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FILE 'HCAOLD' ENTERED AT 19:38:23 ON 11 MAR 2008 0 L17 AND L20

13 L27 AND (PD<-20030710 OR AD<-20030710 OR PRD<-20030710)

22 L23 AND L24 1 L25 AND L1 21 L25 NOT L26

8 L27 NOT L28

L30